DOCUMENT RESUME

ED 054 073 SP 005 245

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TITLE Assessment of Work Needs of Prospective

Teachers-In-Training by an Analysis of the Minnesota

Importance Questionnaire. Final Report.

INSTITUTION Wisconsin State Universities Consortium of Research

Development, Stevens Point.

SPONS AGENCY Office of Education (DHEW), Washington, D.C. Bureau

of Research.

BUREAU NO BR-6-2728-16

PUB DATE 69

GRANT OEG-3-6-062728-2129

NOTE 62p.

EDRS PRICE EDRS Price MF-\$0.65 HC Not Available from EDRS.

DESCRIPTORS *Personal Values, Questionnaires, *Sex Differences,

*Student Needs, *Teacher Education, *Vocational

Interests

IDENTIFIERS Minnesota Importance Questionnaire

ABSTRACT

This study was designed to determine and compare the vocational needs of junior and senior male and female teacher education students at Stout State University. It investigated 21 hypotheses as measured by the Minnesota Importance Questionnaire using a sample of 94 students. The variables on the questionnaire were recast in the form of null hypotheses for statistical testing, and a chi-squared was used on each hypothesis. The conclusions showed that both male and female subjects considered ability utilization, achievement, creativity, social service, responsibility, and advancement the most important vocational needs. Males and females differed significantly in their reaction to activity, advancement, authority, co-worker, independence, moral values, recognition, responsibility, security, social service, and social status variables. They did not differ significantly on vocational needs, ability utilization, achievement, company policies and practices, compensation, creativity, supervision and human relations, technical supervision, variety, and working conditions. It is recommended that this study be used by vocational guidance counselors, higher education instructional staff, and prospective teachers, and that further research be carried out on the variables affecting responsiveness together with a follow-up investigation. [Not available in hard copy due to marginal legibility of original document.] (MBM)



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Research Report

ASSESSMENT OF WORK NEEDS OF PROSPECTIVE TEACHERS-IN-TRAINING BY AN ANALYSIS OF THE MINNESOTA IMPORTANCE QUESTIONNAIRE

Douglas D. Gingrich
Wisconsin State University - Stout
Menomonie, Wisconsin

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FINAL REPORT

WSU-CORD
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Of The
Wisconsin State Universities

Project No. 760-541-70-1007-06 Grant No. 3-6-052728-2129 Local Project No. _________

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Douglas D. Gingrich Wisconsin State University Menomonie, Wisconsin

1969

The research reported herein was performed pursuant to a grant with the Office of Education, U.S. Department of Health, Education and Welfare. Contractors undertaking such projects under Government sponsorship are encouraged to express freely their professional judgment in the conduct of the project. Points of view or opinions stated do not, therefore, necessarily represent official Office of 'Education position or policy.

U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE

Office of Education Bureau of Research



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CHAPTER I

INTRODUCTION

Work as a prominent feature in human lives has long attracted the interest of researchers; however, the fundamental question about what makes a satisfied worker has largely gone unanswered. It was believed by the researchers of this paper that vocational needs were involved in determining worker satisfaction, and that investigation and understanding of these vocational needs could contribute much to the field of vocational counseling.

psychologists are reluctant to generalize research findings from male to female workers because of basic psychological differences. This lack, he believed, has resulted in little knowledge about such things as the patterning of women's work values at various points in maturation and learning, and in little knowledge about "the essential differences between male and female work-value orientations." The instrument used by the researchers of this study was one of the few instruments available that was adaptable to measurement of both male and female work needs or values; and that



John F. Kinnane and Sr. M. Margaret Bannon, "Perceived Parental Influence and Work-Value Orientation,"

<u>Personnel and Guidance Journal</u>, XLIII (November, 1964), 273.

was directly concerned with the differences, as referred to by Kinnane, in what was felt to be an important maturation and learning phase in the life of the subjects involved in this study.

I. THE PROBLEM

Statement of the problem. It was the purpose of this study (1) to determine the vocational needs of Stout State University juniors and seniors, as prospective teachers-intraining; (2) to determine the vocational needs of male and female Stout State University teachers-in-training; and (3) to compare the vocational needs of male and female Stout State University juniors and seniors as prospective teachers. It was not within the scope of this paper to be concerned with why these differences, if any, existed or what effect, if any, these differences might have.

The major hypothesis for the study was that there was no significant difference between male Stout State University prospective teachers and female Stout State University prospective teachers concerning vocational needs as measured by the Minnesota Importance Questionnaire. Minor hypotheses tested were that male and female Stout State University prospective teachers would not differ significantly on the



following variables of the Minnesota Importance Question-naire:2

- 1. Ability Utilization
- 2. Achievement
- 3. Activity
- 1. Advancement
- 5. Authority
- 6. Company Policies and Practices
- 7. Compensation
- 8. Co-workers
- 9. Creativity
- 10. Independence
- 11. Moral Values
- 12. Recognition
- 13. Responsibility
- 11. Security
- 15. Social Service
- 16. Social Status
- 17. Supervision--Human Relations
- 18. Supervision--Technical
- 19. Variety
- 20. Working Conditions

David J. Weiss, Rene V. Dawis, and Lloyd H. Lofquist, "Counselors Manual for the Minnesota Importance Questionnaire (1967 Revision)" (Minneapolis: Work Adjustment Project, University of Minnesota, 1968), pp. 4-5.

4

The alternate hypotheses were that there were significant differences for the above comparisons.

Importance of the study. The rapid development of technology and social change are abolishing the traditional differentiation between male and female occupational choices. Keyserling noted that in 1965 68 per cent of female college graduates were employed, and he further predicted that by 1980 75 per cent of the college-educated women will be working. 3 Despite this predicted increase, the choice of an occupational career will still be a difficult one for women, as well as for men, for while Title VII of the Civil Rights Act declares them equal, biology proclaims differently. Similarily, Elton and Rose noted this discrepancy between what is and what should be and stated that a counselor limits his effectiveness if he links a woman's vocational choice to her sex role in the traditional manner.4 It is believed by many authors that an effective counselor should be concerned with both the abilities and the needs of his client, whether male or female. It is an assumption of equantors at Stout State University that upon completion of the tencher-training programs the population studied will



³Charles F. Elton and Harriett A. Rose, "Significance of Personality in the Vocational Choice of College Women," Journal of Counseling Psychology, XIV (July, 1967), 293.

li Ibid.

۲,

bhis study was to ascertain the work-needs of teachers-in-training which can be utilized by: (1) the higher education instructional staff, (2) the teachers-in-training themselves, and (3) the vocational guidance counselors.

perintence Questionnaire was based described these as the etimulus conditions that were available within the work environment for the satisfaction of workers' needs.

Mork adjustment outcomes which resulted from correspondence between the work personality and the work environment. 6

Catisfictoriness was defined as the employer's view that his workers were performing their jobs adequately. Satisfaction was meen as the employer's feeling of positive regard toward his position.

Teachers-in-training or prospective teachers-in-training. Throughout the study these two terms were used to describe juniors and seniors who had declared a major in

Patterns. Mi nenota Studies in Vocational Reinforcer Externs. Mi nenota Studies in Vocational Rehabilitation, XXIV (Minneapolis: Work Adjustment Project, University of Minnesota, 1968), p. 1.

^{6&}lt;sub>Ibid.</sub>, p. v.

6

ance class at the time of testing.

Vocational needs. The Minnesota Importance Questionnaire defined vocational needs as "the individual's preference for reinforcing conditions in jobs". This instrument
was designed to measure twenty "vocationally-relevant need
dimensions". The authors illustrated each of the twenty
uimensions with a statement they found to be most closely
related to the total scale score on the 1966 versions of the
Minnesota Importance Questionnaire. The item used to
represent each of the twenty dimensions was as follows:

- 1. Ability Utilization: I could do something that makes use of my abilities.
- 2. Achievement: The job could give me a feeling of accomplishment.
- 3. Activity: I could be busy all the time.
- 4. Advancement: The job would provide an opportunity for advancement.
- 5. Authority: I could tell people what to do.
- 6. Company Policies and Practices: The company would administer its policies fairly.
- 7. Compensation: My pay would compare well with that of other workers.
- 8. <u>Co-workers</u>: My co-workers would be easy to make friends with.



- 9. Creativity: I could try out some of my own ideas.
- 10. Independence: I could work alone on the job.
- 11. Moral Values: I could do the work without feeling that it is morally wrong.
- 12. Recognition: I could get recognition for the work I do.
- 13. Responsibility: I could make decisions on my own.
- 14. Becurity: The job would provide for steady employment.
- 15. <u>Boeinl Bervice</u>: I could do things for other people.
- 16. Social Status: I could be "somebody" in the community.
- 17. <u>Supervision--Human Relations</u>: My boss would back up his men (with top management).
- 18. <u>Supervision--Technical</u>: My boss would train his men well.
- 19. <u>Variety</u>: I could do something different every day.
- 20. Working Conditions: The job would have good working conditions. 7



Weins, Dawis, Lofquist, loc. cit.

Work adjustment. This was predicted by matching an individual's work personality with work environments. Work adjustment, in other words, depended on how well an individual's abilities corresponded to the ability requirements in work, and how well his needs corresponded to the reinforcers available in the work environment.

Work values or occupational values. People hold certain beliefs or ideas toward and about work that express the judgments they have regarding the relative worth or the importance of the variables involved in choosing and maintaining an occupation. Like vocational needs, work values involve an individual's preference for reinforcing conditions in occupations.



⁸ Borgen, et al., loc. cit.

CHAPTER II .

METHODS AND PROCEDURES

Chapter three is organized in the following manner:

first a description of the population used in the study is

presented; second, the instrument employed is discussed; and
third, the research procedures are explained.

POPULATION OF THE STUDY

The population of this study consisted of ninety-four prospective teachers attending Stout State University at Menomonie, Wisconsin. These students were members of An Introduction to Guidance classes, a course for education students, during the third quarter of the 1968-69 school year.

The population consisted of 45 males and 49 females. The majority of the prospective teachers were in the 20 to 24 age group. In this group there were 39 males and 45 females. Nine per cent of the prospective teachers were in the 25 to 29 age group. The complete age distribution is illustrated in Table I.

Out of a total of 45 males and 49 females sampled.

64 per cent of the males and 61 per cent of the females were
from hometowns with a population of less than 10,000.

Twelve of the males and 12 of the females came from hometowns



10

in the 10,000 to 49,999 range. Two per cent of the males and 4 per cent of the females came from hometowns of 50,000

TABLE I

AGE DISTRIBUTION OF PROSPECTIVE TEACHERS! SAMPLED

۸,,,,,	Males	Per Cent of Males	h'emales	Per Cent of Females	Total	Per Cent of Total
Below 20	0	0	0	0	0	0
20-24	39	87	45	92	84	89
25-29	5	11	4	8	9	1 :)
30 and older	1	2	O	O	1	1
Total	45	100	49	100	94	100

to 99,999. Table II further portrays the population of the prospective teachers' nometowns.

sampled were in the top quarter of their graduating class from high school. The registrar's office did not have the high school rank of 8 males and 5 females. Twenty-eight males and 23 females were in the middle 50 per cent of their graduating class. In Table III a complete breakdown of high school rank is given.

Table IV depicts the grade point average of prospective teachers' sampled. Included in the sample were a wide

range of averages. Twenty-one males and 15 females had a

TABLE II

POPULATION OF PROSPECTIVE TEACHERS' HOMETOWNS

Population of Hometowns	Males	Per Cent of Males	Females	Per Cent of Females	Total	Per Cent of Total
Under 10,000	29	64	30	61	59	63
10,000-49,999	12	27	12	26	24	26
50,000-99,999	1	2	2	l_{+}	3	3
100,000 and larger	3	7	5	10	8	*
Total	45	100	49	101*	94	101*

*Percentages were rounded off causing the discrepancies.

TABLE III
HIGH SCHOOL RANK OF PROSPECTIVE TEACHERS' SAMPLED

Percentage Rank	Males	Per Cent of Males	Pemales	Per Cent of Pemalos	Total	Per Cent Or Total
Top 75 per cent	7	16	1 0	39	26	
Middle 50 per cent	28	62	23	47	51	1,14
Bottom 25 per cent	2	4	2	L ₊	4	
Information unavailable	8	18	5	10	13	١.,
Total	45	100	49	100	414	10)



2.00 to 2.49 grade point average. Thirty-six per cent of the prospective teachers had a grade point below 2.50. Twenty-two subjects had a grade point of 3.00 or better, 72 did not.

TABLE IV

GRADE POINT AVERAGES OF PROSPECTIVE TEACHERS' SAMPLED

Grade Point Average*	Males	Per Cent of Males	Females	Per Cent of Females	Total	Per Cent ot Total
Under 2.00	1	2	1	2	2	2
2.00-2.149	17	38	17	33	34	36
2.50-2.99	21	47	15	31	36	38
3.00-3.1;9	6	13	13	27	19	21
3.50 and over	0	0	3	6	3	3
Total	45	1 00	49	99**	94	100

^{*}Grade Point is computed on a 4.00 scale.

INSTRUMENT USED IN STUDY

The Minnesota Importance Questionnaire was designed within the framework of the Theory of Work Adjustments to measure the individual's vocational needs. This theory was devised by Dawis, Lofquist, and Weiss. Twenty



^{***}Percentages were rounded off causing the discrepancies.

Rene V. Dawis, Lloya H. Lofquist, and David J.

Vocationally-relevant need dimensions are measured by the Minnesota Importance Questionnaire. The questionnaire authors used a method of pair comparison in Items 1 to 190. For these items, each of the twenty vocationally-relevant statements is paired with every other vocationally-relevant statement to produce the one hundred ninety pairs. The order of pair presentation is randomized to control for response sets. The testee is asked to choose the one statement of the pair which is more important to him on his ideal job. The twenty statements are listed separately for items 191 to 210. The testee decides whether the statement is important or not important in his ideal job.²

The next paragraphs will explain the Theory of Work Adjustment. This theory assumed that an individual had a set of response potentials which reacted when and where his environment allowed and/or stimulated a response. As the individual responded, the act of responding became associated with environmental conditions. These conditions would reinforce and maintain the response.

Responses used by an individual most frequently over a period of time became identified as a set of abilities.



Weiss, A Theory of Work Adjustment (A Revision). (Minneapore. Work Adjustment Project, University or Minneapore, 1968), pp. 1-9.

²Woiss, <u>op</u>. <u>cit</u>., pp. 1-8

Frequently became identified as needs. The Theory of Work Adjustment felt that the combination of these abilities and needs made up the start of an individual's work personality.

As the individual matured, his abilities and needs underwent change. Eventually, they crystallized. When this happened, the individual was said to have a stable work personality.

Dawis et al defined work adjustment as a process by which the individual interacts and comes to grips with his work environment. Satisfactoriness and satisfaction were seen as the results of the work adjustment process. Work adjustment was also determined by the correspondence between abilities and ability requirement, and by the correspondence between reinforcer systems and needs. 3

Dawis, Lofquist, and Weiss operationally defined the Theory of Work Adjustment in nine propositions:

Proposition I. An individual's work adjustment at any point in time is indicated by his concurrent levels of satisfactoriness and satisfaction.

Proposition II. Satisfactoriness is a function of the correspondence between an individual's abilities and the ability requirements of the work environment, provided that the individual's needs correspond with the reinforcer system of the work environment.



³ Dawis, Lofquist, and Weiss, <u>loc. cit.</u>, pp. 1-9.

Corollary IIa. Knowledge of an individual's abilities and of his satisfactoriness permits the determination of the effective ability requirements of the work environment.

Corollary IIb. Knowledge of the ability requirements of the work environment and of an individual's satisfactoriness permits the inference of an individual's abilities.

Proposition III. Satisfaction is a function of the correspondence between the reinforcer system of the work environment and the individual's needs, provided that the individual's abilities correspond with the ability requirements of the work environment.

Corollary IIIa. Knowledge of an individual's needs and of his satisfaction permits the determination of the effective reinforcer system of the work environment for the individual.

Corollary IIIb. Knowledge of the reinforcer system of the work environment and of an individual's satisfaction permits the inference of an individual's needs.

Proposition IV. Satisfaction moderates the functional relationship between satisfactoriness and ability-requirement correspondence.

<u>Proposition V.</u> Satisfactoriness moderates the functional relationship between satisfaction and need-reinforcer correspondence.

Proposition VI. The probability of an individual being forced out of the work environment is inversely related to his satisfaction.

Proposition VII. The probability of an individual voluntarily leaving the work environment is inversely related to his satisfaction.

Combining Propositions VI and VII, we have:

<u>Proposition VIII.</u> Tenure is a joint function of satisfactoriness and satisfaction.

Given Propositions II, III, and VIII, this corollary follows:



Corollary VIIIa. Tenure is a function of ability-requirement and need reinforcer correspondence.

Proposition IX. Work personality-work environment correspondence increases as a function of tenura.4

COLLECTION OF DATA

Background data on the population used in this study were obtained from the Stout State University registrar's office. Vocational needs were assessed by responses made by the prospective teachers on the Minnesota Importance Questionnaire. The questionnaire was administered during Introduction to Guidance classes at Stout State University during the third quarter of the 1968-69 school year. This was a required course for junior and senior education students. The directions given in the manual were closely followed. No administrative problems were encountered. A copy of the Minnesota Importance Questionnaire can be found in Appendix A.

ANALYSIS OF DATA

The vocational needs signified by the Minnesota

Importance Questionnaire were placed in rank order. Rank

order was determined by the number of times the work need



⁴ Dawis, Lofquist, and Weiss, op. cit., pp. 9-11.

was selected as important on the Minnesota Importance Questionnaire. Rank order was given for (1) Stout State University prospective teachers-in-training, (2) male teachers-in-training, and (3) female teachers-in-training.

Twenty hypothes&s were tested to show significant differences between various factors in the sample. Since the data were not normally distributed, each null hypothesis was tested using a chi-square to determine significant differences. Each hypothesis was tested at the 0.05 level of significance.



⁵E. Wayne Courtney and Lorry Sedgwick, Elements of Research Foundations, Instructional Package #0320, "Reading Student's "t" Table," (unpublished materials, Stout State University, Menomonie, Wisconsin, 1969), p. 7.

CHAPTER III.

FINDINGS

Data are presented in this chapter in the following order: (1, ranking of the vocational needs of Stout State University juniors and seniors, as prospective teachers-intraining; (2) ranking of male prospective teachers' vocational needs; (3) ranking of female prospective teachers' vocational needs; and (4) a comparison of the vocational needs of male and female Stout State University juniors and seniors, as measured by the Minnesota Importance Questionnaire.

Ability utilization, achievement, creativity, social service, responsibility, and advancement were selected as the most important vocational needs, as measured by the Minnesota Importance Questionnaire, of Stout State University teachers-in-training. Signified as least important were the following variables: supervision--technical, activity, independence, social status, and authority. The ranking of prospective teachers' vocational needs are reported in Table V.

There were 699 responses indicating a need for achievement by male prospective teachers-in-training.

Ability utilization, creativity, advancement, and social service were the other important vocational needs selected.

Analysis of Table VI shows that supervision--technical,



NUMBER OF RESPONSES SIGNIFYING NEED AND RANK ORDER OF PROSPECTIVE TEACHERS' VOCATIONAL NEEDS AS MEASURED BY THE MINNESOTA IMPORTANCE QUESTIONNAIRE

Vocational Need	Responces Signifying Need	Rank Order
Ability Utilization	1490	1
Achievement	1479	2
Creativity	1403	3
Social Service	1 371	4
Responsibility	1280	5
Advancement	1200	6
Co-workers	1058	7
Moral Values	1 041	8
Company Policies and Practices	996	9
Working Conditions	976	io
Variety	954	11
Security	940	12
Supervision-Human Relations	874	13
Recognition	860	114
Compensation	823	15
Supervision-Tecnnical	687	16
Activity	576	1.7
Indopendence	506	18
Social Status	430	19
Authority	1406	20

TABLE VI

NUMBER OF RESPONSES SIGNIFYING NEED AND RANK ORDER OF MALE PROSPECTIVE TEACHERS' VOCATIONAL NEEDS AS MEASURED BY THE MINNESOTA IMPORTANCE QUESTIONNAIRE

Vocational Need	Responces Signifying Need	Rank Order	
Achievement	699	1	
Ability Utilization	697	2	
Greativity	654	3	
Advancement	622	14	
Social Service	608	5	
Responsibility	579	6	
Securi ty	14.98	7	
Company Policies and Practice	1470	8	
Moral Values	469	9	
Co-worker:	468	10	
Working Conditions	463	1 1	
Variety	14514	12	
Rocognition	1434;	13	
Supervision-Human Relations	1,28	; 1 ₄	
Compensation	<i>L</i> ₊ 1 1	135	
Supervision-Technical	325	16	
Authority	270	17.5	
Social Status	270	17.5	
Activity	250	19	
Independence	196	20	



nuthority, social status, activity, and independence were least important.

Stout State University female teachers-in-training indicated that ability utilization, achievement, social service, creativity, and responsibility, as measured by the Minnesota Importance Questionnaire, were the vocational needs with which they were most concerned. Supervision-technical, activity, independence, social status, and muthority were of least importance. Table VII shows the number of responses signifying need and rank order of female prospective teachers! vocational needs.

between male Stout State University prospective teachers and female Stout State University prospective teachers concerning vocational needs, as measured by the Minnesota Importance Questionnaire. Eleven of the twenty Minnesota Importance Questionnaire variables showed a significant difference between male and female prospective teachers-in-training.

Activity, advancement, authority, co-workers, independence, moral values, recognition, responsibility, security, social service, and social status differed significantly. The following vocational needs were found to be significantly more important to males than females: advancement, authority, recognition, security, and social status. Activity, co-workers, independence, moral values, responsibility and



TABLE VII

NUMBER OF RESPONSES SIGNIFYING NEED AND RANK ORDER OF FEMALE PROSPECTIVE TEACHERS' VOCATIONAL NEEDS AS MEASURED BY THE MINNESOTA IMPORTANCE QUESTIONNAIRE

Vocational Need	Responces Signifying Need	Rank Order
Ability Utilization	793	1
Achievement	780	2
Social Service	763	3
Creativity	7l ₊ 9	1,
Responsibility	701	5
Co-workers	590	6
Advancement	578	7
Moral Values	572	8
Company Policies and Practice	526	9
Working Conditions	51 3	10
Variety	500	11
Supervision-Human Relation	446	12
Security	4142	13
Recognition	425	17,
Compensation	412	15
Supervision-Technical	362	16
Activity	326	17
Independence	310	18
Social Status	160	19
Authority	136	20



23

social service were found to be significantly more important to females than males.

Hypothesis 2. There is no significant difference between male Stout State University prospective teachers and female Stout State University prospective teachers concerning the ability utilization variable of the Minnesota Importance Questionnaire. A chi-square was used to test the significant differences. The hall hypothesis of no significant difference was retained as shown in Table VIII. Male and female Stout State University prospective teachers did not differ significantly on the ability utilization variable of the Minnesota Importance Questionnaire.

TABLE VIII

SEX AND ABILITY UTILIZATION: OBSERVED FREQUENCIES FOR A CHI-SQUARE TEST

Sex	Selected as Yes	Important No
Males	697	199
Pemales	793	186
Total	1/140	385

$$x^2 = 2.955$$
; P < .05, x^2 . 3.84; df = 1

Chi-square probability 0.081931

Hypothesis 3. There is no significant difference between male Stout State University prospective teachers and



Temale Stout State University prospective teachers concerning the achievement variable of the Minnesota Importance Questionnaire. A chi-square was used to test for significant differences. The null hypothesis of no significant difference was retained as shown in Table IX. Male and female Stout State University prospective teachers did not differ significantly on the achievement variable of the Minnesota Importance Questionnaire.

TABLE IX

SEX AND ACHIEVEMENT: OBSERVED FREQUENCIES
FOR A CHI-SQUARE TEST

Se x	Selected as Yes	Important No
Males	699	197
Females	780	198
Total	1479	395

 $x^2 = 0.852$; PC .05, x^2 3.84; df = 1 Chi-square probability 0.641165

Hypothesis 4. There is no significant difference between male Stout State University prospective teachers and female Stout State University prospective teachers concerning the activity variable of the Minnesota Importance Questionnaire. A chi-square was used to test for significant difference. The null hypothesis of no significant difference



was rejected as snown in Table X. Male and female Stout State University prospective teachers did differ significantly on the activity variable of the Minnesota Importance Questionnaire. Females saw this vocational need as being more important to their future occupation than did males.

TABLE X

SEX AND ACTIVITY: OBSERVED FREQUENCIES
FOR A CHI-SQUARE TEST

Se x	Selected as Important Yes No	
Malea	250	644
Pemales	326	652
Total	576	1296

 $x^2 = 6.320$; P \leq .05, x^2 > 3.8 l_i ; df = 1 Chi-square probability 0.011661

hetween male Stout State University prospective teachers and female Stout State University prospective teachers concerning the advancement variable of the Minnesota Importance Questionnaire. A chi-square was used to test for significant differences. The null hypothesis of no significant difference was rejected as shown in Table XI. Male and female Stout State University prospective teachers did differ significantly on the advancement variable of the

Minnemote Importance Questionnaire. Males saw this vocational need as being more important to their future occupation than did females.

TABLE XI

SEX AND ADVANCEMENT: OBSERVED FREQUENCIES
FOR A CHI-SQUARE TEST

Sex	Selected as Yes	Important No
Males	622	277
Fomale:	578	401
Total	12,00	678

 $x^2 = 20.921$; P= .05, $x^2 > 3.8l_4$; df = 1 Chi-square probability 0.000053

Hypothesis 6. There is no significant difference between male Stout State University prespective teachers and female Stout State University prospective teachers concerning the authority variable of the Minnesota Importance Questionnaire. A chi-squarg was used to test for significant differences. The null hypothesis of no significant difference was rejected as shown in Table XII. Male and female Stout State University prospective teachers did differ significantly on the authority variable of the Minnesota Importance Questionnaire. Males saw this



vocational need as being more important to their future than did females.

TABLE XII

SEX AND AUTHORITY: OBSERVED FREQUENCIES
FOR A CHI-SQUARE TEST

Sex	Selected a Yes	no Important
Males	270	628
Females	1 36	81+3
Total	1406	1/471

 $x^2 = 72.289$; P= .05, x^2 - 3.84; df = 1 Chi-square probability 0.000000

Hypothesis 7. There is no significant difference between male Stout State University prospective teachers and female Stout State University prospective teachers concerning the company policies and practices variable of the Minnesota Importance Questionnaire. A chi-square was used to test for significant differences. The null hypothesis of no significant difference was retained as shown in Table XIII. Male and female Stout State University prospective teachers did not differ significantly on the company policies and practices variable of the Minnesota Importance Questionnaire.

Hypothesis 8. There is no significant difference between male Stout State University prospective teachers and

TABLE XIII

DEX AND COMPANY POLICIES AND PRACTICES: OBSERVED FREQUENCIES FOR A CHI-SQUARE TEST

Se x	Selected as Yes	Important No
Malec	1,70	425
Pemules	526	4514
Total	996	879

 $x^2 = 0.335$; P₋₋ .05, $x^2 > 3.84$; dr = 1 Chi-equare probability 0.569893

Temate Stout State University prospective teachers concerning the compensation variable of the Minnesota Importance Questionnaire. A chi-square was used to test for significant differences. The null hypothesis of no significant difference was retained as shown in Table XIV. Male and female Stout State University prospective teachers did not differ significantly on the compensation variable of the Minnesota Importance Questionnaire.

Hypothesis 9. There is no significant difference between male Stout State University prospective teachers and female Stout State University prospective teachers concerning the co-worker variable of the Minnesota Importance



Questionnaire. A chi-square was used to test for significant differences. The null hypothesis of no significant

TABLE XIV

SEX AND COMPENSATION: OBSERVED FREQUENCIES
FOR A CHI-SQUARE TEST

Sex	Selected as Yes	Important No
Malen	1,11	1486
Pemale:	412	567
Total	823	1053

 $x^2 = 2.652$; PZ .05, $x^2 > 3.84$; dr = 1 Chi-square probability 0.099560

difference was rejected as shown in Table XV. Male and female Stout State University prospective teachers did differ significantly on the co-worker variable of the Minnesota Importance Questionnaire. Females saw this vocational need as being more important to their future occupations than did males.

Hypothesis 10. There is no significant difference between male State University prospective teachers and female State University prospective teachers concerning the creativity variable of the Minnesota Importance Question-naire. A chi-square was used to test for significant differences. The null hypothesis of no significant difference



which retained as shown in Table XVI. Male and female Stout. State University prospective teachers did not differ

TABLE XV

SEX AND CO-WORKERS: OBSERVED FREQUENCIES
FOR A CHI-SQUARE TEST

Sex	Sclected as Yes	Important No
Males	1,68	1+31
Females	590	388
Total	1 058	817

 $x^2 = 13.023$; $P \le .05$, $x^2 = 3.8h$; df = 1

Chi-square probability 0.000610

intermificantly on the creativity variable of the Minnesota Importance Questionnaire.

TABLE XVI

SEX AND CREATIVITY: OBSERVED FREQUENCIES
FOR A CHI-: QUARE TEST

Sex	Selected a Yes	: Important No
Males	<u>ό</u> 54	242
Fomales	749	230
Total	11403	472

 $x^2 = 3.069$; P = .05, $x^2 = 3.84$; dt = 1

Chi-square probability 0.076223



between male Stout State University prospective teachers and female Stout State University prospective teachers concerning the independence variable of the Minnesota Importance Questionnaire. A chi-square was used to test for significant differences. The null hypothesis of no significant difference was rejected as shown in Table XVII. Male and Female Stout State University prospective teachers did difference significantly on the independence variable of the Minnesota Importance Questionnaire. Females saw this vocational need as being more important to their future occupations than did males.

TABLE XVII

DEX AND INDEPENDENCE: OBSERVED FREQUENCIES
FOR A CHI-SQUARE TEST

Sex	Selected as Yes	Important No
Males	196	703
Females	310	666
Total	506	1 369

 $x^2 = 23.561$; P≤ .05, $x^2 - 3.84$; dr = 1 Chi-square probability 0.000028

Hypothesis 12. There is no significant difference between male State University prospective teachers



and female Stout State University prospective teachers concerning the moral values variable of the Minnesota Importance Questionnaire. A chi-square was used to test for significant differences. The null hypothesis of no significant difference was rejected as shown in Table XVIII. Male and female Stout State University prospective teachers did differ significantly on the moral values variable of the Minnesota Importance Questionnaire. Females saw this vocational need as being more important to their future occupation than did males.

TABLE XVIII

SEX AND MORAL VALUES: OBSERVED FREQUENCIES
FOR A CHI-SQUARE TEST

Sex	Selected as Yes	Important No
Males	1,69	428
Females	572	408
Total	1 041	836

 x^2 7.013; P \geq .05, $x^2 >$ 3.84; df = 1

Chi-square probability 0.008155

Hypothesis 13. There is no significant difference between male Stout State University prospective teachers and female Stout State University prospective teachers concerning the recognition variable of the Minnesota Importance



Questionnaire. A chi-square was used to test for significant differences. The null hypothesis of no significant difference was rejected as shown in Table XIX. Male and female Stout State University prospective teachers did differ significantly on the recognition variable of the Minnesota Importance Questionnaire. Males saw this need as being more important to their future occupations than did females.

TABLE XIX

CEX AND RECOGNITIONS: OBSERVED FREQUENCIES

FOR A CHI-GQUARE TEST

Sex	Selected a Yes	:: Important No
Males	1,35	4,65
Females	1,25	552
Total	860	1017

 $x^2 = l_1.l_107$; P \leq .05, $x^2 > 3.8l_+$; df = 1 Chi-equare probability 0.033775

between male Stout State University prospective teachers and formule Stout State University prospective teachers concorning the responsibility variable of the Minnesota Importance Questionnaire. A chi-square was used to test for significant cant differences. The null hypothesis of no significant



difference was rejected as shown in Table XX. Male and female Stout State University prospective teachers did differ significantly on the responsibility variable of the Minnesota Importance Questionnaire. Females saw this vocational need as being more important to their future occupations than did males.

TABLE XX

SEX AND RESPONSIBILITY: OBSERVED PREQUENCIES
FOR A CHI-SQUARE TEST

Sex	Selected as Yes	: Important No
Males	1,79	321
Females	701	279
Total	1280	600

 $x^2 = 11.184$; P= .05, $x^2 - 3.84$; df = 1 Chi-square probability 0.001237

hetween male Stout State University prospective teachers and female Stout State University prospective teachers concerning the security variable of the Minnesota Importance Questionnaire. A chi-square was used to test for significant differences. The null hypothesis of no significant difference was rejected as shown in Cable XXI. Male and female Stout State University prospective teachers did



differ significantly on the security variable of the Minnemota Importance Questionnaire. Males saw this vocational need as being more important to their future occupation than did females.

TABLE XXI
SEX AND SECURITY: OBSERVED PREQUENCIES
FOR A CHI-SQUARE TEST

Se x	Selected as Yes	Important No
Males	498	4.01
Females	442	534
Total	9140	935

 $x^2 = 19.125$; P= .05, $x^2 > 3.8\mu$; dr = 1 Chi-square probability 0.000087

between male Stout State University prospective teachers and remale Stout State University prospective teachers concerning the social service variable of the Minnesota Importance Questionnaire. A chi-square was used to test for significant differences. The null hypothesis of no significant difference was rejected as shown in Table XII. Male and female Stout State University prospective teachers did differ significantly on the social service variable of the Minnesota Importance Questionnaire. Females saw this

vocationed need as being more important to their future occupations than did males.

TABLE XXIT

SEX AND SOCIAL SERVICE: OBSERVED FREQUENCIES
FOR A CHI-SQUARE TEST

Sex	Selected as Yes	Important No
Males	608	292
Females	763	214
Total	1 3 7 1	506

 $x^2 = 26.433$; P $\leq .05$, $x^2 > 3.84$; df = 1 Chi-square probability 0.00001/4

Expothesis 17. There is no significant difference between male Stout State University prospective teachers and female Stout State University prospective teachers concerning the social status variable of the Minnesota Importance Questionnaire. A chi-square was used to test for significant differences. The null hypothesis of no significant difference was rejected as shown in Table XXIII. Male and female Stout State University prospective teachers did differ significantly on the social status variable of the Minnesota Importance Questionnaire. Males saw this vocational need as being more important to their future occupations than did females.



Hypothesis 18. There is no significant difference between male Stout State University prospective teachers and

TABLE XXIII

SEX AND SOCIAL STATUS: OBSERVED FREQUENCIES
FOR A CHI-SQUARE TEST

Sex	Selected as Yes	Important No
Males	270	621,
Females	160	814
'Fotal	430	1443

 $X^2 = 48.932$; P < .05, $X^2 > 3.84$; df = 1 Chi-square probability 0.000000

the supervision-human relations variable of the Minnesota Importance Questionnaire. A chi-square was used to test for significant differences. The null hypothesis of no significant difference was retained as shown in Table XAIV. Male and female Stout State University prospective teachers did not differ significantly on the supervision-human relations variable of the Minnesota Importance Question. The

Hypothesis 19. There is no significant difference between male Stout State University prospective teachers and Female Stout State University prospective teachers concerning the supervision-technical variable of the Minnesota



Importance Questionnaire. A chi-square was used to test for significant differences. The null hypothesis of no

TABLE XXIV

SEX AND SUPERVISION-HUMAN RELATIONS: OBSERVED FREQUENCIES FOR A CHI-SQUARE TEST

Sex	Selected as Yes	Important No
Males	428	472
Fem≈les	1,1,6	534
Total	8714	1006

 $x^2 = 0.788$; P = .05, $x^2 > 3.84$; df = 1 Chi-square probability 0.621755

Male and female Stout State University prospective teachers

TABLE XXV

SEX AND SUPERVISION-TECHNICAL: OBSERVED FREQUENCIES FOR A CHI-SQUARE TEST

Sex	Selected as Yes	Importar.t No
Males	325	574
Pemales	362	616
'I'o tal	687	1190

 $x^2 = 0.150$; Parison, $x^2 > 3.84$; dr = 1 Cni-square probability 0.700498



aid not differ significantly on the supervision-technical variable of the Minnesota Importance Questionnaire.

Hypothesis 20. There is no significant difference between male Stout State University prospective teachers and female Stout State University prospective teachers concerning the variety variable of the Minnesota Importance Questionnaire. A chi-square was used to test for significant differences. The null hypothesis of no significant difference was retained as shown in Table XXVI. Male and female Stout State University prospective teachers did not differ significantly on the variety variable of the Minnesota Importance Questionnaire.

TABLE XXVI

SEX AND VARIETY: OBSERVED PREQUENCIES
FOR A CHI-SQUARE TEST

Sex	Select ed as Yes	Imp or tant No
Mules	454	$i_i l_i \supseteq$
remales	()()	1100
To thi	(15),	927

 $X^2 = 0.023$; PS .05, $X^2 = 3.84$; df + 3 Chi-square probability $0.87l_4030$

Hypothesis 21. There is no significant difference
between male Stout State University prospective teachers ...;



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female Stout State University prospective teachers concerning the working conditions variable of the Minnesota Importance Questionnaire. A chi-square was used to test for significant differences. The null hypothesis of as significant difference was retained as shown in Table XXVII. Male and Temple Stout State University prospective teachers did not differ significantly on the working conditions variable of the Minnesota Importance Questionnaire.

TABLE XXVII

SEX AND WORKING CONDITION: OBJERVED FREQUENCIES
FOR A CHI-SQUARE TEST

Sex	Selected as Yes	Imp <mark>ort</mark> ant No
Males	463	i ₊ 31.
Femoler	94.3	1,07
Total	976	901

 $X^2 = 0.100$; P₋ .05, $X^2 = 3.84$; at = 1Cni-square probability 0.750,17



CHAPTER IV.

SUMMARY, CONCLUSIONS, AND DISCUSSION

Summary

It was the purpose of this study (1) to determine the vocational needs of Stout State University juniors and seniors, as prospective teachers-in-training; (2) to determine the vocational needs of male and female Stout State University teachers-in-training; and (3) to compare the vocational needs of male and female Stout State University juniors and seniors as prospective teachers. The study investigated the following hypotheses:

- 1. There is no significant difference between male Stout
 State University prospective teachers and female Stout
 State University prospective teachers concerning vocational needs as measured by the Minresota Importance
 Questionnaire.
- There is no significant difference between male Stock.

 State University prospective teachers and female Stock.

 State University prospective teachers concerning the ability utilization variable of the Minnesota Importance Questionnaire.
- 3. There is no significant difference between mule Start
 State University prospective termines and Female State
 State University prospective termines conducting the



- nentevement variable of the Minnesota Importance Questionnaire.
- 14. There is no significant difference between male Stout State University prospective teachers and female Stout State University prospective teachers concerning the activity variable of the Minnesota Importance Questionnaire.
- 5. There is no significant difference between male Stout State University prospective teachers and female Stout State University prospective teachers concerning the advancement variable of the Minnesota Importance Questionnaire.
- 6. There is no significant difference between male Stout State University prospective teachers and female Stout State University prospective teachers concerning the authority variable of the Minnescta Importance Quentionnaire.
- 7. There is no significant difference between male stout.

 State University prospective teachers and female State

 Atate University prospective teachers concerning the

 company policies and practices variable of the Minner

 sota Importance Questionnaire.
- 8. There is no significant difference between male Stock
 State University prospective teachers and femalistical
 State University prospective teachers concerning the



- compensation variable of the Minnesota Importance Questionnaire.
- 9. There is no significant difference between male Stout State University prospective teachers and female Stout State University prospective teachers concerning the co-workers variable of the Minnesota Importance Questionnaire.
- 10. There is no significant difference between male Stout State University prospective teachers and female Stout State University prospective teachers concerning the creativity variable of the Minneson Importance Questionnaire.
- 11. There is no significant difference between male Stout
 State University prospective teachers and female Stout
 State University prospective teachers concerning the
 independence variable of the Minnesota Importance
 Questionnaire.
- 12. There is no significant difference between male Stout
 State University prospective teachers and female Stout
 State University prospective teachers concerning the
 moral values variable of the Minacosta Importance Questionnaire.
- 13. There is no significant difference between male Stout.
 State University prospective teachers and Cemale Stout.
 State University prospective teachers concerning the



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- recognition variable of the Minnesota Importance Questionnaire.
- There is no significant difference between male Stout
 State University prospective teachers and female Stout
 State University prospective teachers concerning the
 responsibility variable of the Minnesota Importance
 Questionnaire.
- 15. There is no significant difference between male Stout State University prospective teachers and female Stout State University prospective teachers concerning the security variable of the Minnesota Importance Questionnairs.
- 16. There is no significant difference between male Stout State University prospective teachers and female Stout State University prospective teachers concerning the social service variable of the Minnesota Importance Questionnaire.
- There is no significant difference between male Stout.

 State University prospective teachers and female Stout.

 State University prospective teachers concerning the social status variable of the Minnesota Importance.

 Questionnaire.
- 18. There is no significant difference between male Stout
 State University prospective teachers and female Stout
 State University prospective teachers concerning the



- supervision-human relations variable of the Minnesota Importance Questionnaire.
- 19. There is no significant difference between male Stout State University prospective teachers and female Stout State University prospective teachers concerning the supervision-technical variable of the Minnesota Importance Questionnaire.
- 20. There is no significant difference between male Stout State University prospective teachers and female Stout State University prospective teachers concerning the variety variable of the Minnesota Importance Questionnaire.
- 21. There is no significant difference between male Stout
 State University prospective teachers and female Stout
 State University prospective teachers concerning the
 working conditions variable of the Minnesota Importance
 Questionnaire.

The review of literature has shown that vocational needs can not be omitted from discussions of vocational choice and vocational satisfaction. Although the authors, of the theories and studies reviewed in Chapter II, did not completely concur on what stages of development work needs were most important or exactly how much emphasis they should receive, all agreed that work needs must not be overlooked as determinants of vocational choice and vocational satisfaction.



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sample of ninety-four prospective teachers attending Stout State University at Menomonie, Wisconsin. These students were members of Introduction to Guidance Classes, a required course for education students, during the third quarter of the 1968-69 school year. The data used in the study was obtained from the Stout State University registeral's office and the Minnesota Importance Questionnaire. The variables on the Minnesota Importance Questionnaire were recast in the form of null hypotheses for statistical testing. A chi-square was used to test for significant difference on each hypothesis.

The findings of the investigation were as follows:

- Ability utilization, achievement, creativity, social service, responsibility, and advancement were seen as being the most important vocational needs, as measured by the Minnesota Importance Questionnaire, of Steel State University Teachers-in-training.
- P. Achievement, ability utilization, creativity, advances ment, and social service were the vocational needs, and measured by the Minnesota importance Questionnal, and the Stout State University male teachers-in-training and state University female teachers-in-training indicated than ability utilization, achievement, social service,



- creativity, and responsibility, as measured by the Minnesota Importance Questionnaire, were the vocational needs with which they were most concerned.
- 3. Eleven of the twenty Minnesota Importance Questionnaire variables showed a significant difference between male and female prospective teachers-in-training. The chi-square test of independence was utilized to test for relationships of questionnaire responses to membership in the separate sample group. Initially, 2 x 2 contigency tables were used to test for significant response differences on each of the twenty work needs rated. The 0.05 level of significance was chosen as the criteria for testing all hypotheses considered in this study. Thus, in using the 2 x 2 contingency tables with one degree of freedom if chi-square was greater than 3.84, the null hypotheses was rejected and a significant difference in responses between groups was assumed. Using this procedure, the following vocational needs were found to be signil monthly more important to males than females: advancement, well recognition, security, and social status. Activity. co-workers, independence, moral values, responsibility and social service were found to be significantly more important to females than males.

Conclusions and Discussion

Based on the data obtained, the following conclusions seemed important:

- 1. Male and female prospective teachers-in-training agreed that ability utilization, achievement, creativity, social service, responsibility, and advancement were the most important vocational needs, as measured by the Minnesota Importance Questionnaire, to obtain in their future occupation.
- 2. Male teachers-in-training emphasized achievement, ability utilization, creativity, advancement and social service as the vocational needs on the Minnesota Importance Questionnaire which they see as being most important in their ideal job. Female teachers-in-training, however, see the Minnesota Importance Questionnaire vocational needs of ability utilization, achievement, social service, creativity, and responsibility as being most important in their future career.
- 3. The results obtained from this study did not enable the authors to accept or reject the null hypothesis as stated: There is no significant difference between male Stout State University prospective teachers and female Stout State University prospective teachers concerning vocational needs as measured by the Minnessota Importance Questionnaire. When twenty tests



were made, nine of the null hypotheses were accepted at the .05 level while eleven were rejected. Hence, slightly more than one-half of the tested hypotheses were rejected.

- Male and female Stout State University prospective teachers do not differ significantly on the ability utilization variable of the Minnesota Importance Questionnaire.
- 5. Male and female Stout State University prospective teachers do not differ significantly on the achievement variable of the Minnesota Importance Questionnaire.
- teachers do differ significantly on the activity variable of the Minnesota Importance Questionnaire.

 Females see this vocational need as being more important to their future occupation than do males.
- 7. Male and female Stout State University prospective teachers do differ significantly on the advancement variable of the Minnesota Importance Questionnaire.

 Males see this vocational need as being more important to their future occupation than do females.
- 8. Male and female Stout State University prospective teachers do differ significantly on the authority variable of the Minnesota Importance Questionnaire.

 Males see this vocational need as being more



- important to their future occupations than do females.
- 9. Male and female Stout State University prospective teachers do not differ significantly on the company policies and practices variable of the Minnesota Importance Questionnaire.
- 10. Male and female Stout State University prospective teachers do not differ significantly on the compensation variable of the Minnesota Importance Questionnaire.
- 11. Male and female Stout State University prospective teachers do differ significantly on the co-worker variable of the Minnesota Importance Questionnaire.

 Females see this vocational need as being more important to their future occupations than do males.
- 12. Male and female Stout State University prospective teachers do not differ significantly on the creativity variable of the Minnesota Importance Questionnaire.
- 13. Male and female Stout State University prospective teachers do differ significantly on the independence variable of the Minnesota Importance Questionnaire.

 Females see this vocational need as being more important to their future occupations than do males.
- 14. Male and female Stout State University prospective teachers do differ significantly on the moral values variable of the Minnesota Importance Questionnaire.



- Femiles see this vocational need as being more important to their future occupation than do males.
- 19. Male and female Stout State University prospective teachers do differ significantly on the recognition variable of the Minnesota Importance Questionnaire.

 Males see this need as being more important to their future occupations than do females.
- 16. Male and female Stout State University prospective teachers do differ significantly on the responsibility variable of the Minnesota Importance Questionnaire.

 Females see this vocational need as being more important to their future occupations than do males.
- 17. Male and Temale Stout State University prospective teachers do differ significantly on the security variable of the Minnesota Importance Questionnaire.

 Males see this vocational need as being more important to their future occupation than do females.
- 18. Male and female Stout State University prochective teachers do differ significantly on the accided and variable of the Minnesota Emportance Constitution.

 Females see this vocational need as being more important to their future occupations that do sales.
- 19. Male and female Stout St to University pro Decults

 towevers do differ significantly and acceptance of the Minnesota importance were consultant.



Males see this vocational need as being more important to their future occupations than do females.

- 20. Male and female Stout State University prospective teachers do not differ significantly on the supervision-human relations variable of the Minnesota Importance Questionnaire.
- 21. Male and femule Stout State University prospective teachers do not differ significantly on the supervision-technical variable of the Minnesota Importance Questionnaire.
- 22. Male and female Stout State University prospective teachers do not differ significantly on the variety variable of the Minnesota Importance Questionnaire.
- 23. Male and female Stout State University prospective teachers do not differ significantly on the working conditions variable of the Minnesota Importance Questionnaire.

RECOMMENDATIONS

Vocational research has shown that vocational has a are determinants in vocational choice and vocational has a faction. As Kuhlen pointed out, in certain situations might be undesireable to employ individuals that demonstrate a particular pattern of needs. It is, therefore, readmonstrate



¹Kuhlen, loc. cit., p. 64.

that this study providing information regarding the vocational needs of teachers-in-training be used by the vocational guidance counselors, the higher educational instructional staff, and the prospective teachers-in-training themselves.

In addition to the above recommendation, several implications can be proposed for future investigation. First, research into the variables affecting responsiveness could be conducted. The motivating factors which determine a response or no response could be a fruitful area of investigation. Second, an even more comprehensive picture of the prospective teachers! work needs might be gained if a less structured instrument, designed to elicit more freedom of expression and latitude of response than the questionnaire employed in this study, were used with a similar sample group. Third, the researchers of this study feel that a follow up investigation would be appropriate.



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